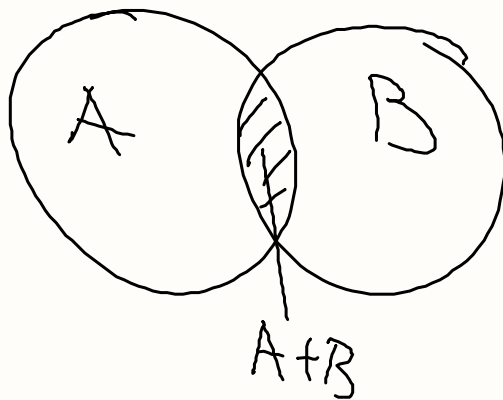


CH. 10.4 USING ADDITION WITH PROBABILITY
p. 652

INCLUSIVE EVENTS - CAN HAPPEN AT
THE SAME TIME
STUDENT CAN BELONG TO MORE
THAN 1 CLUB

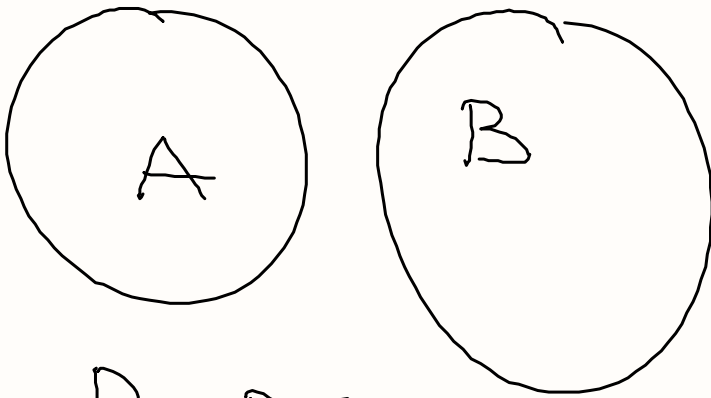


$$P = P(A) + P(B) - P(A \cap B)$$

MUTUALLY EXCLUSIVE EVENTS -

CANNOT HAPPEN AT THE SAME TIME

TOSSING OF A COIN: HEAD OR TAIL



$$P = P(A) + P(B)$$

p. 656

$$P = \frac{\text{FAVORABLE OUTCOMES}}{\text{ALL OUTCOMES}} = \frac{\quad}{6}$$

1 2 3 4 5 6

#7

$$P(5) = \frac{1}{6}$$

$$P(6) = \frac{1}{6}$$

$$\begin{aligned} P &= P(5) + P(6) = \\ &= \frac{1}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3} \end{aligned}$$

9

$$p = \frac{3}{6} + \frac{1}{6} = \frac{4}{6} = \frac{2}{3}$$

15

$$\frac{6}{6} = 1$$

(17)



$$\frac{6}{36} = \frac{1}{6}$$

SUMS OF 8

$$2 + 6 = 8 \quad 6 + 2 = 8$$

$$3 + 5 = 8 \quad 5 + 3 = 8$$

$$4 + 4 = 8$$

SUM OF 12

$$6 + 6 = 12$$

19

$$\frac{36-11}{36} = \frac{25}{36}$$

SUM OF LESS THAN 7

OR GREATER THAN

$$2+5=7 \quad 5+2=7$$

$$3+4=7 \quad 4+3=7$$

$$1+6=7 \quad 6+1=7$$

$$8 \quad 4+4=8$$

$$3+5=8$$

$$5+3=8$$

$$2+6=8$$

$$6+2=8$$